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APPLICATION NO.	FILIN	G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,842	10/31/2003		Ovidiu Marin	Serie 6388	9308
7590 12/02/2005				INER	
Air Liquide				CASAREGOLA, LOUIS J	
Ste 1800 2700 Post Oak	Blvd.			ART UNIT	PAPER NUMBER
Houston, TX				3746	
				DATE MAILED: 12/02/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		(i)
	Application No.	Applicant(s)
•	10/698,842	MARIN ET AL.
Office Action Summary	Examiner	Art Unit
	Louis J. Casaregola	3746
	ication appears on the cover sheet with	h the correspondence address
Period for Reply A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MINIOR OF STATE OF THE MINIOR OF	AILING DATE OF THIS COMMUNIC. of 37 CFR 1.136(a). In no event, however, may a repunication. atutory period will apply and will expire SIX (6) MONT will, by statute, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
earned patent term adjustment. See 37 CFR 1.704(b).		
Status	·	
1) Responsive to communication(s) file		
<u> </u>	2b)⊠ This action is non-final.	
, —	for allowance except for formal matte	•
closed in accordance with the practi	ce under Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.
Disposition of Claims		
4) ☐ Claim(s) 1-37 is/are pending in the a 4a) Of the above claim(s) 4-37 is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restrict	withdrawn from consideration.	
Application Papers		•
9) The specification is objected to by the		
10)☐ The drawing(s) filed on is/are:		
	ction to the drawing(s) be held in abeyand	, ,
Replacement drawing sheet(s) including 11) The oath or declaration is objected to	the correction is required if the drawing(so by the Examiner. Note the attached	• •
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim a) All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies	documents have been received. documents have been received in Ap of the priority documents have been r nal Bureau (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s) 1) ☑ Notice of References Cited (PTO-892)	4) ☐ Interview Su	immary (PTO-413)
 Notice of References Cited (P10-892) Notice of Draftsperson's Patent Drawing Review (F3) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date 	PTO-948) Paper No(s)	/Mail Date formal Patent Application (PTO-152)

Election

Applicants' election of the invention of Group I, claims 1-3, and the species of Figure 1 is acknowledged. The election was made with traverse. Applicants' arguments have been considered but are not however effective in demonstrating that the restriction and species election requirements are improper.

Applicants argue there has been no showing that examination of the different inventive groups in this case would be burdensome. This point is disputed however inasmuch as the method claims of non-elected Group II require searching a method subclass, which is not part of the of the normal examination search for the apparatus claims of elected Group I. Furthermore, the examination burden is not limited to the prior art search but also includes the effort required to apply the art by making and discussing all appropriate grounds of rejection. Multiple inventions, such as those in the present application, normally require additional reference material and further discussion for each additional invention examined. Concurrent examination of multiple inventions would thus typically involve a significant burden even if all searches were coextensive. The restriction requirement in this case is therefore considered proper and is consequently made final.

With regard to the species election requirement, applicants further state that all claims are readable on the elected Figure 1 species. It is agreed that all claims in elected Group I, i.e. claims 1-3, do in fact read on the elected Figure 1 species. It is debatable however whether all claims in non-elected Group II also read on the elected

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species, but this point is moot since only the claims of elected Group I must be examined. Group II, claims 4-37, is consequently withdrawn from consideration, and an action on the merits of Group I, claims 1-3, is set forth below.

Claim Rejections - 35 USC 112

Claims 1-3 are rejected under 35 USC 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention.

The claims are considered vague and indefinite for the following reasons:

Claim 1 and related dependent claims 2-3 recite a "high pressure combustor" and an "intermediate pressure combustor". The term "intermediate" however only has meaning when used in conjunction with both higher and lower reference values. The present claims include no low pressure combustor or other element that would serve to provide a low pressure reference point for the "intermediate pressure combustor".

The claims also recite a high pressure turbine (claim 2) and an intermediate pressure turbine (claim 3) but no low pressure turbine. The "intermediate pressure turbine" thus suffers from the same problem as the "intermediate pressure combustor" discussed above.

Claim 1 and dependent claims 2-3 further describe the high pressure combustor as having "a water recycle temperature control subassembly", and the claims additionally describe the intermediate pressure combustor as having "a CO₂ recycle temperature control assembly". These limitations are not fully understood. The preferred embodiment appears to merely connect each respective combustor with a water or CO₂ recycle line. Is the so-called 'temperature control subassembly" simply the recycle line, and if not, what other specific structure are applicants attempting to claim? Furthermore, the term "recycle" only has meaning if the fluid flow(s) involved originate from some downstream point in a given system, but in the present claims, the water and CO₂ recycle fluids have no clear point of origin.

It is additionally emphasized that while the claims are drawn to a "power generation system", claim 1 merely recites a pair of combustors with temperature controls. The claim lacks even a nominally recitation of any power extraction device, hence, it is not seen how the apparatus in claim 1 can be called "a power generation system".

References

Viteri et al and LeBas et al are cited as disclosing pertinent examples of prior art gas turbine engines with water and/or CO₂ recycle systems.

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L. J. Casaregola 571-272-4826 (M-F; 7:30-4:00) 571-273-8300 FAX November 29, 2005 LOUIS J. CASAREGOLA
PRIMARY EXAMINER

If repeated attempts to reach the examiner by telephone are unsuccessful, the art unit supervisor, Timothy Thorpe, can be reached at 571-272-4444.

Information regarding the status of this application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR, and status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).